TV
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Contents

Installation

Your remote control *2*
Preparation *3*
Installation *4*
Store TV channels *4*
- Select the menu language *4*
- Automatic tuning *4*
- Manual tuning *5*

Sorting of channels *6*
Channel Edit *6*
Naming of channels *6*

English

Operation

Use of the menus
- Picture menu *7*
- Sound menu *8*
- Features menu *9-10*

Picture in Picture / Dual Window (if provided) *12*
The keys on top of the TV *11*
Teletext (if provided) *13-14*

Connect peripheral equipment

Connecting and selecting equipment *15-17*
Recording *18*

Before Calling Service *19*
Tips & Index *20*
Glossary & Specifications *21*
International guarantee conditions *22*
Consumer Information Centres *23-26*

Preparation

Your remote control

Sleep
Allows you to select a time period after which the set will switch to standby mode automatically.

Standby
• Switch set off temporarily to standby mode. (The red light indicator lights up when set is on standby mode).
• To switch on set from standby mode, press button again.

(Alternate Channel) A/CH
Allows you to alternate between the last viewed channel and the present channel.

PIP (Picture in Picture)**/Dual Window On/Off**

PIP CH UP/DOWN
(if provided) See p. 12

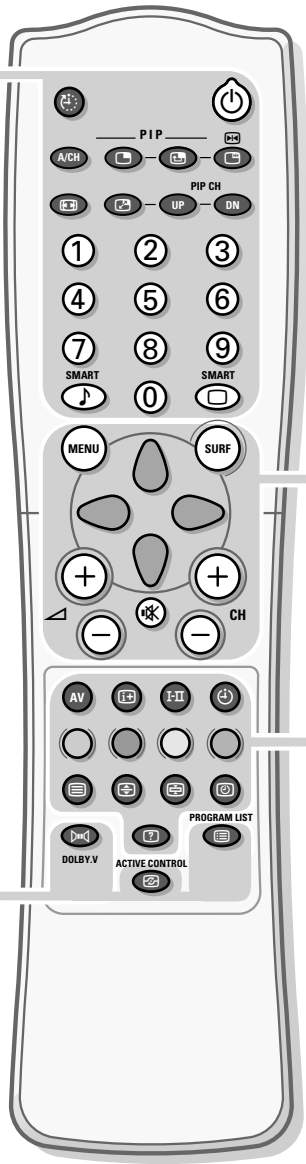
Freeze
Allows you to freeze the main picture.

Screen format
Press this key repeatedly to select another screen format: Auto, 4:3, Expand 4:3 and Compress 16:9. See also p. 11.

Digit (0-9)
Allows you to select a channel.
Note: For a 2-digit number, the second digit must be entered before the "-" sign disappears.

Smart Sound
Allows you to select your desired sound setting from 4 types of sound settings.
Press the key repeatedly to select the different settings.

Smart Picture
Allows you to select 5 types of picture settings.
Press the key repeatedly to select the different settings.



MENU Displays main menu.
Also exits the menu from the screen or returns to a higher menu level.

SURF
Allows you to select up to a maximum of 10 favourite channels or sources and view quickly the selected channels or sources.
To add a new channel or source:
• Select the channel number or source you want to add to the surf list.
• Press the **SURF** key.
The request **ADD?** appears next to the selected channel number or source.
• Press the cursor right to add.
To delete a channel or source:
• Select the channel number or source you want to remove from the surf list.
• Press the **SURF** key.
The request **DELETE?** appears next to the selected channel number or source.
• Press the cursor right to delete.
Press the **SURF** key repeatedly to scroll through the selected channels or sources.

Cursor
Up/Down: allows you to select the next or previous item on the menu and to select another picture format
Left/Right: allows you to access the sub-menus and adjust the settings.

Volume +/-
Increases or decreases volume.

Mute
Mutes the sound. To restore the sound, press the button again.

CH +/- Selects channels in ascending or descending order.

Dolby V
Dolby Virtual*(with Dolby Surround signals)*
Dolby Virtual (Virtual Dolby Surround) enables you to experience the effect of Dolby Pro Logic Surround, reproducing a rear sound effect.

Incredible Surround
In **Stereo** sound mode, when **Incredible Surround** is selected, it seems as though the loudspeakers are spread further apart from one another.

In **Mono** sound mode, this feature, when switched on, enables you to hear a spatial effect of sound.

Active Control On/Off
Measures and corrects all incoming signals in order to provide the best picture quality settings. Press to select the Active Control values On or Off.
ON: Sharpness and Noise Reduction are controlled automatically. The Picture settings are being adapted continuously and automatically. The menu items cannot be selected.

PROGRAM LIST
Allows you to navigate through a list of installed programmes for a quick overview of the channels and activate the channel you have selected.

AV Allows you to select the AV channels.

On Screen Display
• Displays the channel number, sound transmission mode, the clock and the status of the sleeptimer.
• Also allows you to exit menu from screen.

I-II
Allows you to switch from **Stereo** to **Mono** sound during stereo transmission or to choose between **Language** I or **Language** II during dual sound transmission.

Timer
Allows you to set the clock to switch to another channel at a specified time while you are watching another channel or when the set is on standby mode.

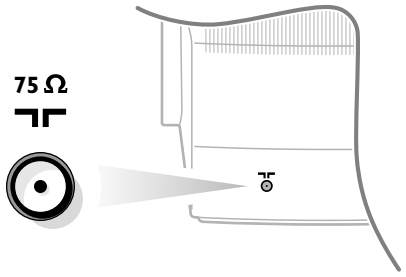
Colour keys, Teletext
(if provided) See p. 13
Allows you to access teletext information.

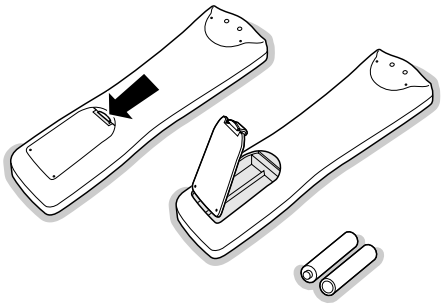
for future use

Preparation

1. **Place the TV on a solid surface.**
For ventilation, leave at least 5 cm free all around the TV.
Do not place the TV on a carpet.
To prevent any unsafe situations, do not place any objects on top of the TV.
Avoid heat, direct sunlight and exposure to rain or water.

2. **Insert the aerial plug** firmly into the aerial socket ⊓ at the back of the TV. For best picture quality use the suppressor-aerial cable supplied.
Note: if you connect more equipment to the same aerial cable, use a good quality shielded splitter.





3. **Insert the mains plug** in the wall socket. Refer to the back of the TV set for the correct operation voltage. Consult your local dealer if your mains supply is different. To prevent damaging the mains (AC) cord which could cause hazard, do not place the TV on the cord.

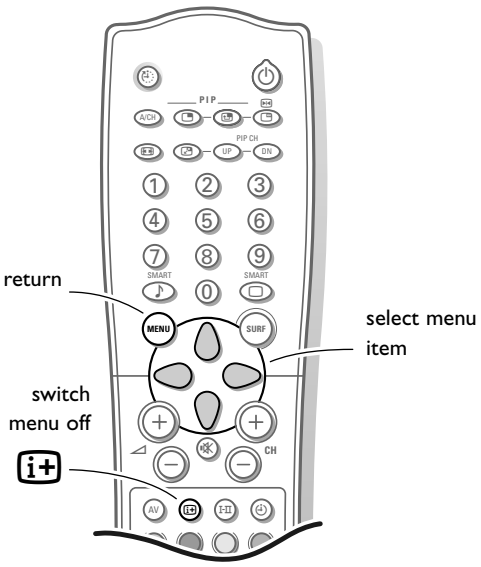
4. Remote control: Remove the cover of the battery compartment.
Insert the 2 batteries supplied (Type R6-1.5V).

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries exhausted batteries may not be disposed of with your household waste. Please check on how to dispose of exhausted batteries according to local regulations.

Note: this remote control functions with TVs which use the RC5 signalling standard.

5. **Switch the TV on :** Press the power switch ⏻ on the front of your TV. If the indicator is red, press the **- CH+** key, the digit keys or the ⏻ key on the remote control.

Installation



To use the menus

1. Press the **MENU** key to display/cancel the main menu.
2. Use the cursor in the up/down directions to select a menu item.
   Note: Sometimes not all the menu items are visible on the screen; press the cursor down until all the items are displayed.
3. Use the cursor in the left/right directions to access the sub-menu and to adjust the settings.
4. Press the menu key to return.
5. Press the i+ key to switch the menu off.

```
PICTURE
SOUND
FEATURES
INSTALL
```

Note: If no action is executed, the menu automatically disappears after about 12 seconds.

Store TV channels

```
PICTURE
SOUND
FEATURES
INSTALL
```

Select the menu language

First, select your language.

1. Press the **MENU** key.
2. Select **INSTALL** with the cursor down.
3. Press the cursor right to select **LANGUAGE**.
4. Press the cursor right again.
5. Select your language with the cursor up/down.
6. Press the **MENU** key to return to the main menu.

From now onwards, all on-screen displays will appear in the language that you have chosen.

You can now search for and store the TV channels in two different ways: using Auto store or Manual store (tuning in channel by channel).

```
INSTALL
   LANGUAGE
   AUTO STORE
   MANUAL STORE
   SORT
   CHANNEL EDIT
   NAME
```

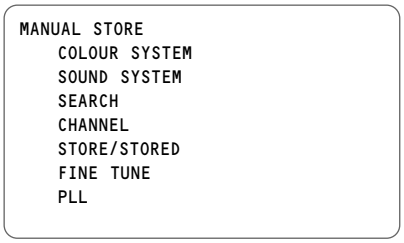
Automatic tuning of channels

```
INSTALL
   LANGUAGE
   AUTO STORE
   MANUAL STORE
   SORT
   CHANNEL EDIT
   NAME
```

1. Select **AUTO STORE** in the **INSTALL** menu.
2. Press the cursor right to start the searching.
   All TV channels are searched for and stored automatically.
3. When the tuning is completed, press the **MENU** key to return to the **INSTALL** menu or press the i+ key to switch the menu off.

Note: Channel numbers will always be written in Latin characters, even when a language has been selected which uses other characters.

Manual tuning of channels



Manual tuning allows you to store channel by channel.
You must go through every step of the manual store menu.

1. Select **MANUAL STORE** in the **INSTALL** menu.
2. Press the cursor right to enter the menu.
3. Select **COLOUR SYSTEM** and press the cursor right.
   If **AUTO** is selected, the respective colour system will be automatically selected according to the transmission system.
   If the reception is poor, select another colour system with the cursor up/down.
4. Press the **MENU** key or the cursor left.
5. Select **SOUND SYSTEM** and press the cursor right.
   If **AUTO** is selected, the respective sound system will be automatically selected according to the transmission system.
   Note: If the reception is poor, select another sound system with the cursor up/down.
6. Press the **MENU** key or the cursor left.
7. Select **SEARCH** and press the cursor left or right to start the searching.
   Searching stops once a transmitting channel is found.
   Note: If the reception is poor, select another colour and/or sound system.
8. Select **CHANNEL**.
9. Key in the desired channel number with the digit keys or with the cursor left/right.
10. Press the cursor down.

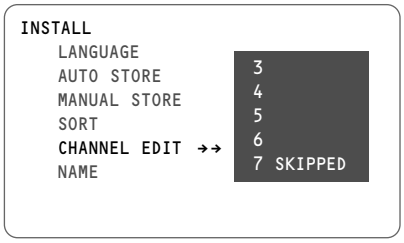
    In case of poor reception, you can improve the reception by adjusting the frequency.
11. Select **FINE TUNE** and press the cursor left/right to adjust.
12. In rare cases certain TV channels may reproduce distorted or unstable pictures.
    Select **PLL** (Phase Locked Loop) to switch to the setting 2 with the cursor left/right to restore the picture for the respective transmission.
13. Press the cursor down to select **STORE**.
14. Press the cursor right.
    The message **STORED** appears and the search menu item is highlighted again.
15. Now repeat steps 7 to 14 to continue searching for another transmitting channel.
16. Press the **MENU** key to return to the **INSTALL** menu or press the i+ key to switch menu off.

Sorting of channels

According to your preference you **can** change the order of the stored TV channels.

1. Select **SORT** in the **INSTALL** menu.
2. Press the cursor right to enter the menu.
3. Key in the channel number in the **FROM** column you want to swap from. Use the digit keys or the cursor left/right.
4. Press the cursor down and select **TO**.
5. Key in the channel number in the **TO** column you want to swap to.
6. Press the cursor down and select **EXCHANGE**.
7. Press the cursor right.
   The message **EXCHANGED** appears and the selected channels are exchanged.
8. Repeat steps 3 to 7 until all TV channel are allocated as you like.
9. Press the **MENU** key to return to the **INSTALL** menu or press the i+ key to switch menu off.

Editing of channels



This feature allows you to edit or skip channels from the channel list which have bad or weak signals or channels which you do not watch often.
*Note: Once a channel is skipped, you cannot select it with the **CH -** or **+** key. You can only access the channel with the digit keys.*

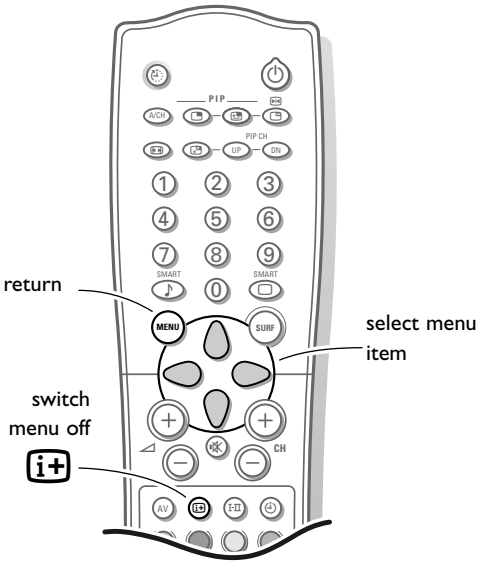
1. Select **CHANNEL EDIT** in the **INSTALL** menu.
2. Press the cursor right to enter the channel list.
3. Select the channel you want to skip with the cursor up/down.
4. Press the cursor right to skip the selected channel.
   The message **SKIPPED** is displayed.
5. Press the cursor up/down to select another channel and repeat step 4.
6. Press the cursor left or the **MENU** key to return to the install menu or the i+ key to switch menu off.
   Note: to add back channels to the list, repeat steps 1 to 4 and press the i+ key to switch menu off.

Naming of channels

It is possible to assign a name to a TV channel. This feature allows you to enter a new name or modify an existing name of a channel, including peripherals.
Note: Even when you have selected another language in the language menu, only the English language character set is offered to enter names to the TV channels stored.

1. Select a TV channel or peripheral you want to assign a name or modify the existing name.
2. Select **NAME** in the **INSTALL** menu.
3. Press the cursor right to enter the menu.
4. Key in the selected character with the cursor up/down.
5. Move to the next character with the cursor right and key in the next character. You can key up to a maximum of 5 characters.
6. Press the **MENU** key to store the named channel.

Operation




```
PICTURE
SOUND
FEATURES
INSTALL
```

```
PICTURE
    BRIGHTNESS
    COLOUR
    CONTRAST
    SHARPNESS
    (HUE)
    COLOUR TEMP
    DIGITAL SCAN
    DYN. CONTRAST
```

Use of the menus

1. Press the **MENU** key to display/cancel the **MAIN MENU**.
2. Use the cursor in the up/down directions to select the **PICTURE**, **SOUND** or **FEATURES** menu.
3. Press the cursor right to activate the selected menu.
4. Press the **MENU** key repeatedly to return or press the i+ key to switch the menu off.

Picture menu

Brightness
This control allows you to adjust the brightness levels of the picture.

Colour
This control allows you to adjust the colour saturation of the picture.

Contrast
This control allows you to adjust the contrast levels of the picture.

Sharpness
This control allows you to adjust the edge definition of the picture to improve details.

Hue *(only with NTSC signals)*
This control allows you to adjust the colour mix of the picture.

Colour temperature
This control allows you to select from TV channels, the colour temperature of the picture.

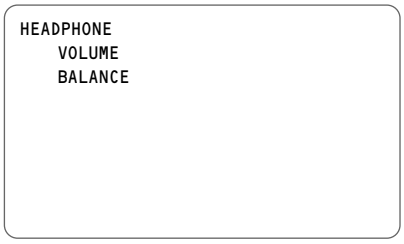
Select **Normal**, **Warm** or **Cool** with the cursor left/right.

Digital Scan *(Line Flicker Reduction)*
In certain circumstances while watching TV programmes it may be preferable to switch off the digital scan line flicker reduction.

Select **On** or **Off** with the cursor left/right.

Dynamic Contrast
This feature automatically makes the contrast in the darker and the brighter picture areas more noticeable as the image on screen changes.
Normally, select **MED**. In certain circumstances it may be preferred to select **MIN**, **MAX** or **OFF**.

Note: The picture settings, brightness, colour, contrast, sharpness, (hue) and colour temperature, for channels 0 to 11 and for the external sources are stored separately. For the other channels they are stored for all of them.



Sound menu

Treble
Treble attenuates or amplifies the high-frequency response of the audio output signal.

Bass
Bass attenuates or amplifies the low-frequency response of the audio output signal.

Balance
Adjusts the balance of the right and left speaker's sound output.

AVL (Automatic Volume Leveller)
AVL automatically controls the volume level to avoid too large level differences, especially when switching to another channel or during commercial breaks.

Headphone
Allows you to adjust the volume and balance of the headphone.

1. Press the cursor right.
2. Select **VOLUME** or **BALANCE** with the cursor up/down.
3. Press the cursor left/right to adjust.
4. Press the **MENU** key to return.

Features menu

Activating the timer

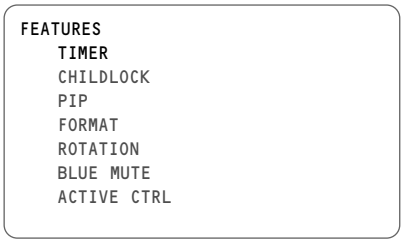
The Timer feature allows you to set the timer to switch to a selected channel at a specified time while you are watching another channel or when the TV is on standby mode.

Note: For the timer to function, the set must not be powered off.

1. Select **TIMER** in the **FEATURES** menu.
2. Press the cursor right to enter the timer.

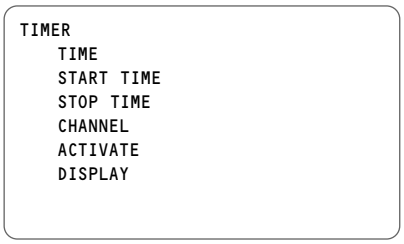
Setting the timer

1. Press the cursor right again to enter the **TIME** mode.
2. Key in the current time with the digit keys.
   You must use 24 hour, or military time. For example: 2:15 p.m. is 14:15.
   If you entered an incorrect digit:
   Complete the actual time with arbitrary numbers, then start again.
3. Press the cursor left to exit from **TIME** mode.



Setting Start Time

1. Select **START TIME** with the cursor down.
2. Press the cursor right to enter the **START TIME** mode.
3. Key in the time you want the programme to be switched on.
4. Press the cursor left to exit from **START TIME** mode.



Setting Stop Time

1. Select **STOP TIME** with the cursor down.
2. Press the cursor right to enter the **STOP TIME** mode.
3. Key in the time you want the programme to be switched off.
4. Press the cursor left to exit from **STOP TIME** mode.

Select Channel

1. Select **CHANNEL** with the cursor down.
2. Select the channel you want to switch to.

Activating the timer

1. Select **ACTIVATE** with the cursor down.
2. Press the cursor right to enter the **ACTIVATE** mode to activate the timer.
3. Select with the cursor right, **ONCE** or **DAILY**, according to if you want to activate the timer on the selected channel and the selected time, every day or only once.

Displaying the time

1. Select **DISPLAY** with the cursor down.
2. Press the cursor right to select **ON** of **OFF**, according to if you want to display the current time on the TV screen or not.
3. Press the **MENU** key to return or the i+ key to switch menu off.

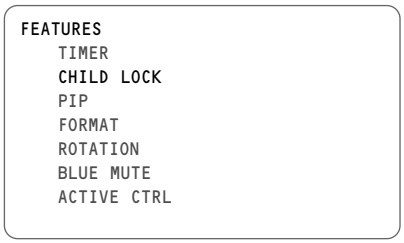
Child Lock

The Child Lock feature allows you to lock channels to prevent children from watching certain programmes.

Enter the access code

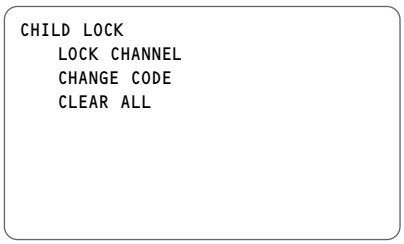
1. Select **CHILD LOCK** in the **FEATURES** menu.
2. Press the cursor right to enter the **ACCESS CODE**.
3. Key in access code 0711 (the default access code).
   A message **INCORRECT** will appear.
4. Key in access code 0711 a second time.
   The message **CORRECT** will appear and make the child lock menu accessible.

Change code



1. Select **CHANGE CODE** to enter an access code of your choice.
2. Press the cursor right to enter the **CHANGE CODE** mode.
3. Key in the access code of your choice and confirm it again.
   The message **CORRECT** will appear.

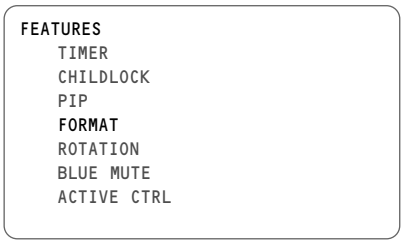
Activating the Child Lock

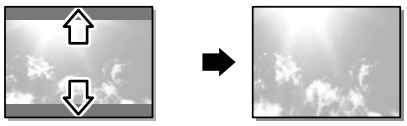


1. Select **LOCK CHANNEL** in the **CHILD LOCK** menu.
   Note: Enter the access code if requested. See above.
2. Press the cursor right to enter the **LOCK CHANNEL** mode.
3. Use the cursor up/down to select the channel you want to lock.
4. Press the cursor right to lock the channel.
   A keylock symbol will appear beside the locked channel.
   From now on the locked channel(s) can only be accessed via the remote control.
5. Repeat steps 1 to 4 to unlock a locked channel.
   To clear all locked channels at once, select **CLEAR ALL** in the **CHILD LOCK** menu and press the cursor right.
   The message **CLEARED** will appear.
6. Press the **MENU** key to return or the i+ key to switch menu off.

Adjusting the PIP Tint setting *(effective only with NTSC signals)*

1. Select **PIP** in the **FEATURES** menu.
2. Press the cursor right to enter the **PIP** menu.
3. Press the cursor left/right to adjust the tint setting.
4. Press the **MENU** key to return or the i+ key to switch menu off.





EXPAND 4:3

COMPRESS 16:9

Selecting the screen format

You have the choice of different screen formats: Auto, 4:3, Expand 4:3 and Compress 16:9.

1. Select **FORMAT** in the **FEATURES** menu.
2. Press the cursor right repeatedly to cycle through the different screen formats and select your desired format.
   - **AUTO** format makes the picture to fill the screen as much as possible;
   - **4:3** format displays the 4:3 picture using the full surface of the screen;
   - **EXPAND 4:3** format expands movie images recorded in the letterbox format. The black bars at the top and bottom of the screen are expanded thus filling up the entire TV screen;
   - **COMPRESS 16:9** format compresses full screen movie images into letterbox format. Black bars are displayed at the top and bottom of the screen.

   Note: See also Preparation, Your remote control, p. 2.

Rotation *(If provided)*

1. Select **ROTATION** in the **FEATURES** menu.
2. Keep the cursor left/right pressed to adjust the rotation of the picture.
3. Press the i+ key to switch menu off.

Activating Blue mute

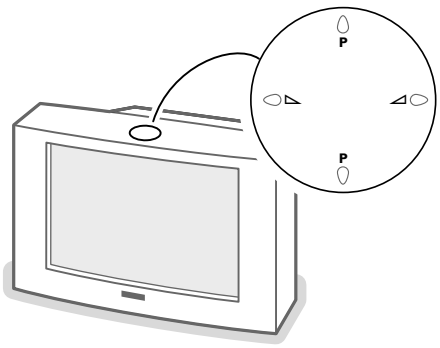
The Blue mute feature indicates to you the absence of signal in the transmission when **BLUE MUTE ON** is activated.
The screen will turn blue in colour when no signal is detected.

1. Select **BLUE MUTE** in the **FEATURES** menu.
2. Press the cursor right to select **ON** to activate the blue mute feature.
3. Press the i+ key to switch menu off.

Activating Active Control

See Preparation, Your remote control, p. 2.

1. Select **ACTIVE CTRL** in the **FEATURES** menu.
2. Press the cursor right to select **ON** to activate automatic control of Sharpness and Noise Reduction.
3. Press the i+ key to switch the menu off.

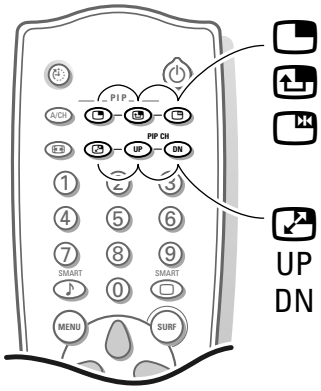


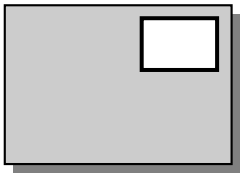
Keys on top of the TV

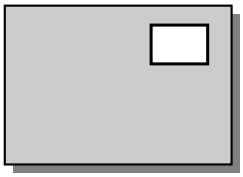
Should your remote control be lost or broken you can still change some of the basic picture and sound settings with the keys on top of the TV.

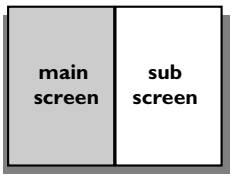
1. To display/cancel the main menu, press the volume keys ◿ and ◺ at the same time.
2. Press the **P** up/down keys to select a menu item.
3. Press the volume keys ◿ and ◺ or **P** up/down to display the sub-menu and to adjust the settings.
4. Press the **P** up key repeatedly to return to the main menu.

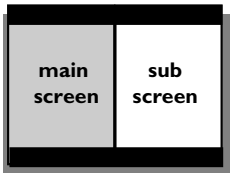
When the main menu is not displayed, the **P** up/down keys enable you to select the TV channels, the ◿ and ◺ keys to adjust the volume.











PIP (Picture in Picture) / Dual Window *(if provided)*

The Picture-in-Picture feature allows you to call up a subscreen within your main screen enabling you to watch two channels or a channel and a peripheral at the same time.

The Dual Window feature allows you to divide the main screen into two subscreens enabling two channels or a channel and an external source to be watched simultaneously.

1. Press the key on the remote control to switch on PIP.
2. Press the key a second time to change the normal size PIP screen to a smaller size.
3. Press the key a third time to switch to Dual Window screen.
4. Press the key a fourth time to switch to Dual Window screens in 16:9 or 4:3 format.
   Note: When the programme on the right screen is in NTSC mode or transmission, the picture size appears smaller.
5. Press the key a fifth time to switch to full screen again.

Moving the PIP screen

Press the key.
Each time you press this key, the PIP screen moves to another corner of the main screen.

Freeze the PIP screen.

Press the key.
The picture in the PIP screen stands still.
Press the key again to unfreeze the PIP screen.

Switching screens

Press the key.
The main screen and the PIP screen exchange places.
In Dual Window the left and the right picture exchange places.

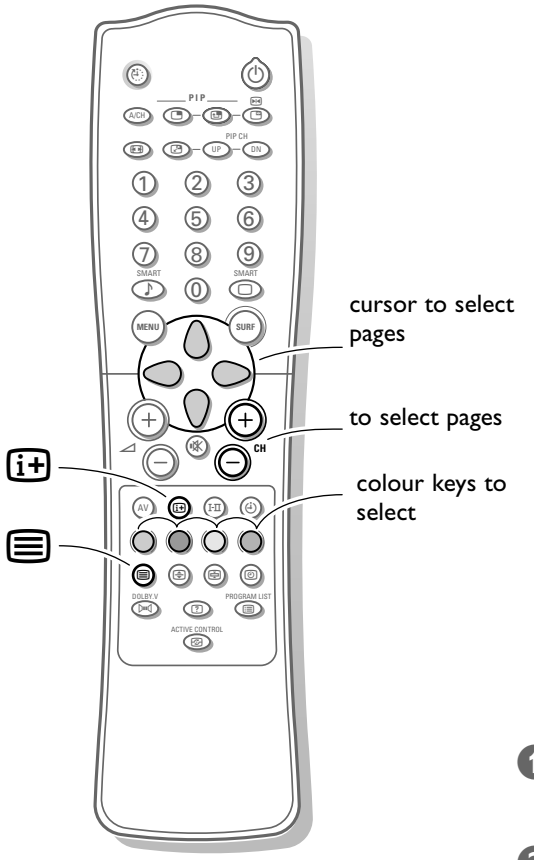
Selecting PIP channels and external sources

Press the keys **PIP CH UP/DN** to select a PIP TV channel or external source in ascending or descending order.

Selecting Dual Screen channels

1. Press the **CH +/-** key to cycle through the TV channels in the left picture.
2. Press the **PIP CH UP/DN** to cycle through the channels in the right picture.

Teletext *(if provided) (only English teletext supported)*



Many TV channels broadcast information via teletext.
Each channel which broadcasts teletext transmits a page with information on how to use its teletext system. Look for the teletext page with the main index (usually p. 100).

Depending on the TV channel, teletext is transmitted in different systems.
The colours used in the options line correspond with the colour keys of your remote control.

About Easy Text

Easy Text considerably reduces the waiting time (on condition that the teletext broadcast of the particular TV channel is received for at least half a minute) by :

- a direct selection of previous and following pages which are in transmission and of the pages referred to in the options line at the bottom of the teletext screen
- a habit watcher list: frequently used pages are put automatically in a list of preferred pages, so that they are immediately available
- the precapturing of the page numbers referred to in the displayed page
- the precapturing of all the subpages.

Switch Teletext on and off

1. Press ☰ to switch the teletext on.
The main index page appears on the screen together with two information lines at the top and one option line at the bottom of the screen.
2. Press ☰ again to overlay the teletext page on the TV programme.
3. Press ☰ once again to switch the teletext off.

Select a Teletext page

With the digit keys
Enter the desired page number with the digit keys.
The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.

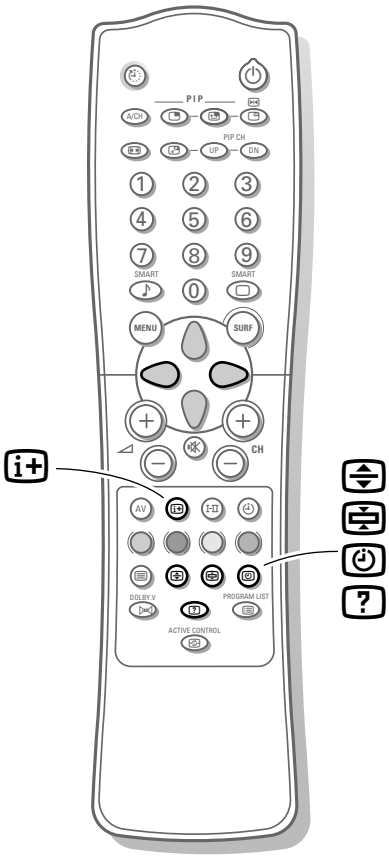
A message appears when you have entered a non existent or incorrect page number. Page numbers beginning with 0 or 9 do not exist. Choose another number.

With the option line
Select with the colour keys, corresponding to the coloured options at the bottom of the screen, the desired subject.

If the option line is not on the screen, press the selected colour key TWICE.

Quickly run through the teletext pages

Press the cursor up/down or the **- CH +** keys to run through the previous or the following pages.



Select the index teletext page

Press the i+ key to return to the main index (usually p.100).

Select subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.
Arrows in front of the page number indicate that other subpages are available.
The other subpages can be selected in 2 ways :

With the cursor left/right
The other subpage numbers appear in white as soon as the transmission has found them. They are stored in the memory so that they are available while the teletext page is on screen.
Select with the cursor left/right the previous or the following subpage.

With the ⏲ key
• Enter the subpage number yourself:
Press ⏲. Enter the desired subpage with the digit keys : e.g. 3 for the third page of seven subpages.
The TV searches for the selected subpage.

• Automatically rotating subpages:
Press ⏲ again to cancel the entered digit key for the subpage.
Now the subpages rotate automatically.

Press ⏲ again to select the subpages with the cursor left/right again.

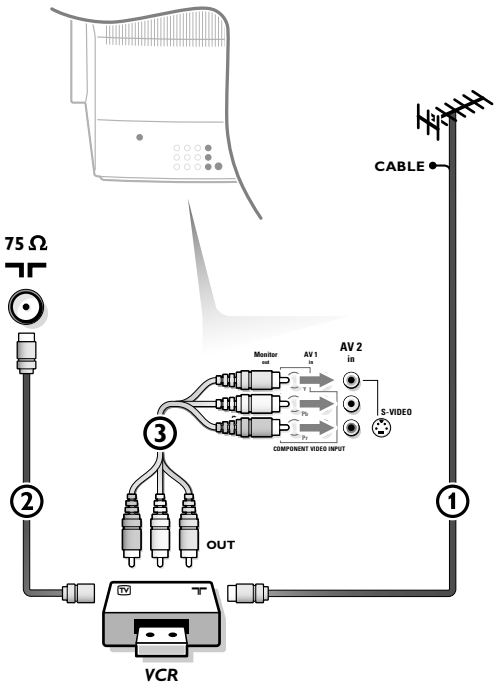
Special teletext functions

Enlarge
Press ⇳ repeatedly to display the upper part, the lower part and then to return to the normal page size. When the upper part is displayed, you can scroll the text, line by line using the cursor up/down.

Reveal
Press ? to reveal/conceal the hidden information, such as solutions to riddles and puzzles.

Connect Peripheral Equipment

There is a wide range of audio and video equipment that can be connected to your TV. The following connection diagrams show you how to connect them.



Video recorder

1. Connect the RF cable ① to the RF socket ⊓ of your video recorder.
2. Connect another RF cable ② from the output TV of your video recorder to the input ⊓ of your TV.
   Better playback quality can be obtained if you also connect the Video, Audio Left and Right (only for stereo equipment) cables ③ to the **VIDEO**, **AUDIO L/Mono** and **R** input **AV2 IN**.

   Note: in case of mono equipment, only the left loudspeaker reproduces sound. Use a mono to stereo adaptor (not supplied) for sound reproduction via all internal loudspeakers.

The **MONITOR OUT** connectors can be used for daisy chaining or to record programmes from your TV. See Record with your video recorder, p. 18.

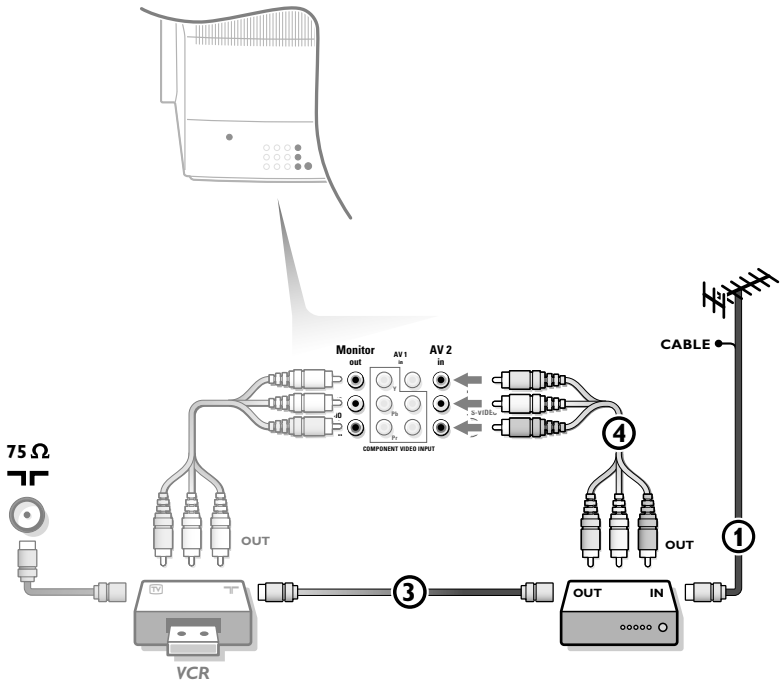
S-VHS-Video quality with a S-VHS video recorder is obtained by connecting the S-VHS-Video cable with the **S-VIDEO** input instead of connecting the video recorder to the **VIDEO** input. (See the instructions of your video recorder.)

If the cables ③ are not used the following steps are required:

Search for and store the test signal of the video recorder

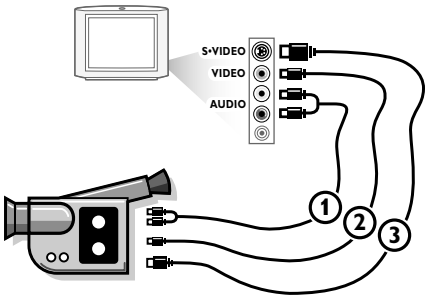
1. Unplug the RF cable ① from the RF socket ⊓ of your video recorder.
2. Switch on your TV and put the video recorder on the test signal or play a prerecorded tape (See the handbook for your video recorder.).
3. Search for the test signal of your video recorder in the same way as you searched for and stored the TV signals. See Installation, Store TV Channels, Manual Tuning, p. 5.
4. Store the test signal under programme number 0 or between 90 and 99.
5. Replace the RF cable in the RF socket ⊓ of your video recorder after you have stored the test signal.

Video recorder and other A/V peripherals



1. Interconnect your video recorder with extra RF cables ③.
2. To obtain better picture quality, also connect the Video, Audio left and Audio right (only for stereo equipment) cables to the **VIDEO**, **AUDIO L/Mono** and **AUDIO R** input of **AV2 IN** sockets ④.

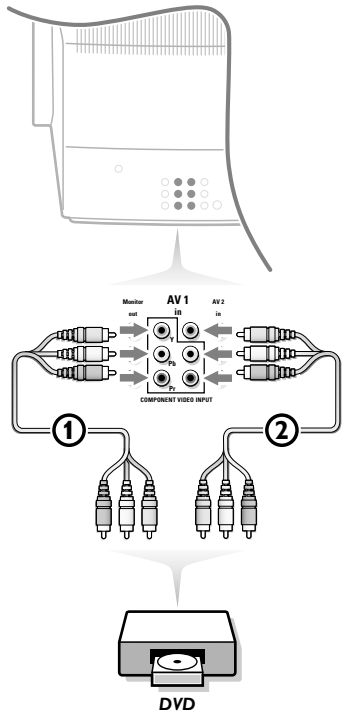
Note: in case of mono equipment, only the left loudspeaker reproduces sound.
Use a mono to stereo adaptor (not supplied) for sound reproduction via all internal loudspeakers.
When a video recorder is not connected to MONITOR OUT you can only record a programme from the aerial or from the cable system.
Only when a video recorder is connected to MONITOR OUT it is possible to record a programme from other equipment connected to the TV. *See Record with your video recorder, p. 18.*



Camera & camcorder

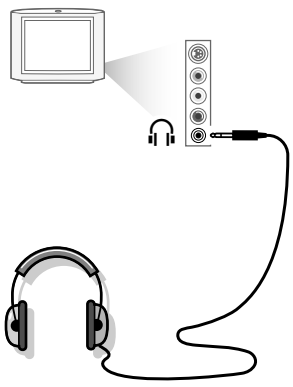
1. Connect your camera or camcorder to sockets at the right side of your TV.
2. Connect the equipment to **VIDEO** ② and **AUDIO L** ① for mono equipment.
3. For stereo equipment also connect **AUDIO R** ①.

S-VHS quality with an S-VHS camcorder is obtained by connecting the S-VHS cables with the **S-VIDEO** input ③ (instead of **VIDEO** ②) and **AUDIO** inputs ①.



DVD-player

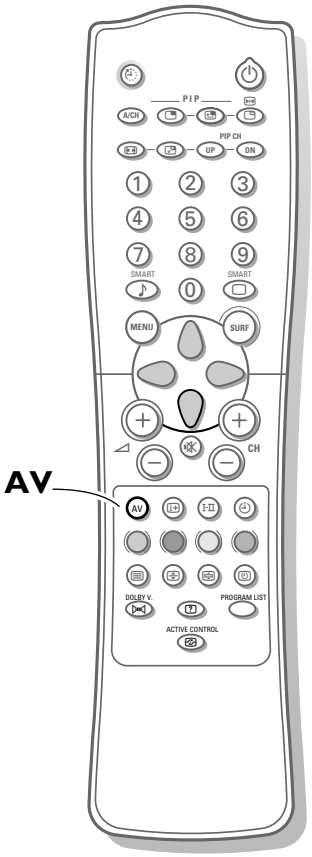
1. Connect the cables of your **Y-Pb-Pr** DVD player ① to the **Y-Pb-Pr** input **AV1** in sockets on the TV.
   For correct picture reproduction also connect to **VIDEO**.
   (See the handbook of your DVD player.)
2. Connect the Audio left and right (only for stereo equipment) cables to the **AUDIO L/Mono** and **R** input.



Headphone

1. Insert the plug into the headphone socket at the right side of the TV.
2. Press on the remote control to switch off the internal loudspeakers of the TV.
   The headphone impedance must be between 8 and 4000 Ohm.
   The headphone socket has a 3.5 mm jack.

In the **SOUND** menu select **Headphone** to adjust the headphone volume and balance.



To select connected equipment

Equipment connected with an aerial cable only :
Select the channel number under which you have stored the test signal with the digit keys.

Equipment connected to the back or to the right side of the TV
Press the **AV** key repeatedly to select **AV1**, **CVI**, **AV2** or **FRONT**, according to where you connected your equipment at the back or the right side of your TV.
Select **CVI** to view the playback of DVD discs if you used the Component Video Input sockets (**Y-Pb-Pr** and **AUDIO L/Mono** and **R** inputs).

If you want to change to TV channels?
Enter the channel number of the TV channel which you want to watch with the digit keys.

Record with your video recorder

To record S-VHS quality, connect an S-VHS peripheral directly to the video recorder.

Record a TV programme

1. Select the channel number on your video recorder.
2. Set your video recorder to record.
   See the handbook for your video recorder.

Switching channel numbers on your TV does not disturb recording !

Record a programme on your video recorder connected to MONITOR OUT from Audio/Video equipment connected to AV1, AV2 or to sockets on the right side of the TV

1. Switch on the equipment.
2. Select the correct external on your TV and on your video recorder.
3. Set your video recorder to record.
   You record what you are watching on the screen.

Do not switch channel numbers or do not switch off your TV when you are recording !

Before Calling Service

Please make these simple checks before calling service. These tips may save you time and money since charges for television installation and adjustments of customer controls are not covered under your warranty.

Symptoms	Items to Check and Actions to follow
"Ghost" or double images	• This may be caused by obstruction to the antenna due to high rise buildings or hills. Using a highly directional antenna may improve the picture.
No power	• Check that the television's AC power cord is plugged into the mains socket. • Unplug the television, wait for 60 seconds. Then re-insert the plug into the mains socket and turn on the television again.
No picture	• Check the antenna connection at the rear of the television to see if it is properly connected to the television input terminal. • Possible broadcast station trouble. Try another channel. • Adjust the contrast and brightness settings or select another picture setting with the smart picture key.
Good picture but no sound	• Increase the VOLUME. • Check that the television is not muted, press the 🔇 button on the remote control. • When no signal is detected, the television automatically switches off the sound. This is proper operation and does not indicate a malfunction. • Check the transmission system's sound settings of this set.
Good sound but poor colour or no picture	• Adjust the contrast and brightness setting or select another picture setting with the smart picture key. • Check the transmission system's colour settings of this set.
Poor picture	• Sometimes, poor picture quality occurs when having activated an S-VHS camera or camcorder connected to the right side of of your TV and another peripheral is connected to AV1 or AV2 at the same time. In this case, switch off one of the other peripherals.
Snowish picture and noise	• Check the antenna connection.
Horizontal dotted line	• This may be caused by electrical interference (e.g. hairdryer, nearby neon lights, etc.) • Turn off the equipment.
One white line across the screen	• Turn off the television immediately and consult a qualified service personnel.
Television not responding to remote control	• Check whether the batteries are working. Replace if necessary. • Clean the remote control sensor lens on the television. • Operating range between television and the remote control should not be more than 6 meters. • You can still use the keys at the top of your TV.
NICAM sound distortion (crackling noise)	• This could be due to antenna siting or reflected signal. • Switch over to "MONO" mode by pressing the I-II key.
Wrong menu	• Press the i+ key again to exit from the menu.

If your problem is not solved

Turn your TV off and then on again once.

Never attempt to repair a defective TV yourself.

Check with your dealer or call a TV technician.

Tips

Care of the screen
Clean the TV with a slightly damp soft cloth. Do not use abrasive solvent as it can damage the TV screen.

End of life directives
Philips is paying a lot of attention to producing environmentally-friendly in green focal areas. Your new TV contains materials which can be recycled and reused.
At the end of its life specialised companies can dismantle the discarded TV to concentrate the reusable materials and to minimise the amount of materials to be disposed of.
Please ensure you dispose of your old TV according to local regulations.

How to dispose of exhausted batteries?
The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries exhausted batteries may not be disposed of with your household waste. Please ensure you dispose of exhausted batteries according to local regulations.

Index

a active control, *2*
automatic tuning of channels, *4*
b bilingual broadcast, *2*
c camcorder, *17*
child lock, *10*
d dolby virtual, *2*
dual window, *12*
DVD, *17*
dynamic contrast, *7*
e editing of channels, *6*
f freeze, *2*
frequency, *5*
h headphone, *17*
hue, *7*
i info on screen, *2*
interrupt the sound, *2*
m manual installation, *5*
menu language, *4*
n naming of channels, *6*
p picture adjustments, *7*
pip - picture in picture, *11*
pip-position, *2*
r recording, *18*
rotation, *11*
s screen format, *12*
sleeptimer, *2*
smart picture and sound, *2*
sorting of channels, *6*
sound adjustments, *8*
stereo, *2*
store TV channels, *4*
S-VHS, *16*
switch TV on, *3*
t teletext, *13*
v video recorder, *15*
volume, *2*

Glossary

100 Hz
100 Hertz provides a superior solution to the problem of picture flicker which is particularly noticeable with larger screen sizes. In a conventional TV, the picture area is scanned 50 times a second (50 Hertz) – a frequency which is still detectable by the human eye in the form of a flickering picture. In 100 Hertz sets, the picture area is scanned at a rate of 100 times per second (100 Hertz). At this frequency, the eye cannot detect flicker, resulting in a clearer picture which is more relaxing to the eye.

Colour Temperature
TV-function to modify the general colour balance between cool and warm and to adjust it according to your personal preference.

Child Lock
Feature to prevent unauthorised use of your TV.

Digital Scan
If you look at a television screen you will see small imperfections in the picture caused by line vibration.
Digital Scan (an internal process) removes interline flicker. When combined with 100 Hz, you will see a totally stable image.

Tint (in NTSC)
The actual colour which can vary from deep to pale.

Menu
On-screen display of functions and facilities in a well-organised survey, which you can select using your remote control.

NTSC
The broadcasting system used in the USA, Japan and parts of South America and Southeast-Asia.

Smart Picture and Sound Controls
Keys on the remote control to select predefined picture and sound settings.

Sleeptimer
Function with which you can set a time period after which the TV should switch itself to standby.

Picture Freeze
TV mode which allows you to "freeze" a certain image in order to study a specific detail at ease, e.g. to make notes of certain programme information like phone numbers.

Specifications

Picture tube size		29" (74 cm)
Picture visible area		27" (68 cm)
TV system		PAL B/G/D/K/I, NTSC (3.58), SECAM B/G/D/K/I
Playback system		PAL BG/DK/I, NTSC (3.58), SECAM B/G/D/K/I, PAL 60
Antenna input		75 ohms co-axial
Operating voltage, Frequency		Refer to the specification at the back of the TV set.
Power consumption		Refer to the specification at the back of the TV set.
* Audio Output		3 x 10 W (left, right, subwoofer)
Dimension:	Width Height Depth	79 cm 59 cm 50 cm
Nett weight (approx. only)		54 kg

** Audio Output (for 29PT8319/93 only): 2 x 7,5 W (left, right) + 10 W (subwoofer)*

International guarantee conditions

This product is guaranteed by Philips for a period of one year after the date of purchase against defects due to faulty workmanship or materials. The guarantee covers both parts and labour.

Service under guarantee is only provided upon presentation of reasonable evidence (e.g. completed guarantee card or purchase receipts) that the date of the claim is within the guarantee period.
The guarantee is not valid if the defect is due to accidental damage (including in transport), misuse of neglect and in case of alterations or repair carried out by unauthorised persons.
The guarantee may not apply if the product requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorised or if any damage results from these modifications.
Service (during and after guarantee) is available in all countries where this product is officially distributed by Philips. In countries where Philips do not distribute the product, the local Philips Service organisation will also provide Service although there may be a delay if the appropriate spare parts and technical manual are not readily available.

These statements do not affect your statutory rights as a consumer.
In the event of difficulty please contact the Philips Information Centre in any country (see enclosed addresses).

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